WHAT IS CLAIMED IS:

1. A one-time-use camera comprising:

an electronic digital camera system for generating digital image data representative of a captured image;

a non-volatile memory in communication with the electronic digital camera system for storing the digital image data, the non-volatile memory comprising a matrix memory component, the matrix memory component including a first layer of parallel conductors, a second layer of parallel conductors oriented mutually orthogonal to the first set of parallel conductors, and a functional medium disposed between the first layer and the second layer, wherein an addressable cell in the functional medium is defined at an intersection of each first layer parallel conductor and second layer parallel conductor; and

wherein supplying an electrical energy directly to the functional medium of the cell detects or changes the logical state of the cell, for reading and writing the digital image data at the matrix memory component.

2. The camera of claim 1, wherein the functional medium is made of an organic material with non-linear impedance characteristics.

3. The camera of claim 1, wherein the functional medium includes a polymer material.

4. The camera of claim 1, wherein the functional medium includes an amorphous silicon material.

5. The camera of claim 1, wherein the functional medium includes a low molecular weight organic material.

6. The camera of claim 1, further comprising an external interface wherein the external interface is configured for transfer of the digital image data to an external device.

7. The camera of claim 1, further comprising a camera housing, wherein the wherein the non-volatile memory component is attached to the housing.

8. The camera of claim 7, wherein the housing includes a front portion and a back portion, wherein the non-volatile memory component is attached to the back portion defining a camera back memory assembly.

9. The camera of claim 8, wherein the camera back memory assembly is removable from the front portion.

10. The camera of claim 9, wherein the camera back assembly is replaceable with a second camera back assembly.

11. The camera of claim 1, wherein the non-volatile memory component is removable from the camera.

12. The camera of claim 11, wherein the non-volatile memory component is replaceable with a second non-volatile memory component for reuse of the camera.

13. The camera of claim 1, wherein the memory component includes an external device interface for transferring the digital image data to an external device.

14. The camera of claim 1, wherein the electronic digital camera system includes a lens system, a shutter system, a charge coupled device, an analog to digital converter, a digital signal processor, and a camera system processor for

receiving an image and converting the image to digital image data stored in the memory component.

15. The camera of claim 1, wherein the electronic digital camera system includes an external device interface for transferring the digital image data stored at the memory component to an external device.

16. A one-time-use camera comprising:

an electronic digital camera system for generating digital image data representative of a captured image, the electronic digital camera system including a mode switch for allowing a user to select a mode of operation of the camera;

a non-volatile memory in communication with the electronic digital camera system for storing the digital image data, the non-volatile memory comprising a matrix memory component, the matrix memory component including a first layer of parallel conductors, a second layer of parallel conductors oriented mutually orthogonal to the first set of parallel conductors, and a functional medium disposed between the first layer and the second layer, wherein an addressable cell in the functional medium is defined at an intersection of each first layer parallel conductor and second layer parallel conductor; and

wherein supplying an electrical energy directly to the functional medium of the cell detects or changes the logical state of the cell, for reading and writing the digital image data at the matrix memory component.

17. The camera of claim 16, wherein the electronic digital camera system includes a microphone system for recording sound as part of the digital image data.

18. The camera of claim 16, including a selectable mode of operation for recording a still picture as the digital image data.

19. The camera of claim 16, including a selectable mode of operation for recording still picture and sound associated with the still picture as the digital image data.

20. The camera of claim 16, including a selectable mode of operation for recording video as the digital image data.

21. The camera of claim 16, including a selectable mode of operation for recording video and sound associated with the video as the digital image data.

22. A method of using a one-time-use camera comprising:

defining a digital camera including a camera housing, an electronic digital camera system for generating digital image data representative of a captured image; and a non-volatile memory including a write once memory matrix component in communication with the electronic digital camera system for storing the digital image data;

capturing an image using the digital camera and storing the image as digital image data in the non-volatile memory;

removing the non-volatile memory; and

transferring the digital image data from the non-volatile memory to a portable medium.

23. The method of claim 22, comprising defining the write once memory matrix component including a first layer of parallel conductors, a second layer of parallel conductors oriented mutually orthogonal to the first set of parallel conductors, and a functional medium disposed between the first layer and the second layer, wherein an addressable cell in the functional medium is defined at an intersection of each first layer parallel conductor and second layer parallel conductor.

24. The method of claim 22, defining the portable medium as photographic prints.

25. The method of claim 22, defining the portable medium as a digital video disk.

26. The method of claim 22, further comprising replacing the non-volatile memory with a second non-volatile memory such that the one-time-use camera is available for reuse.

27. The method of claim 26, wherein the step of replacing the non-volatile memory with a second non-volatile memory includes replacing the second portion of the housing with a third housing portion having the second non-volatile memory attached thereto.

28. The method of claim 22, further comprising the step of sending the portable medium to a user.

29. The method of claim 22, including defining the functional medium to include an organic material having non-linear impedance characteristics.

30. The method of claim 22, including defining the functional medium to include an amorphous silicon material.

31. The method of claim 22, including defining the functional medium to include a polymer.

32. The method of claim 22, including defining the functional material to include a low molecular weight organic material.